

我国刺腿蝽属一新种*

(竹节虫目: 蝽科)

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自1977年以来,在我国陕西、四川、广西、广东等省陆续发现竹节虫严重为害林木和农作物。1986年四川省巫山县因竹节虫为害林木受灾面积达200余亩,山上的油桐、柏树、化香、乌桕、青冈及河边的麻柳等树叶被吃光,同时还为害玉米、马铃薯等。1989年在四川省忠县发现20余亩柏林被害仅剩光杆,一片黑褐色,状似火烧一样。在上述两地发现的竹节虫经鉴定为刺腿蝽属一新种,现记述如下,模式标本存南开大学生物系。

蜀刺腿蝽 *Phobaeticus sichuanensis* 新种 (图1—4)

雌虫: 体棕褐色,光滑。头长椭圆形,后部稍窄缩,头侧缘具浅灰色宽带。眼半球状,眼间有一对向外斜伸的短刺突。触角稍粗壮,超过前足腿节中央,23节,分节明显,第1节背腹扁平,长约为宽的4倍,第2节圆锥形,基部稍收缩,长略大于宽,第3节圆筒状,长约为宽的2.5倍,触角基部各节较短粗,中间各节较细长,端部稍尖。前胸背板亚长方形,

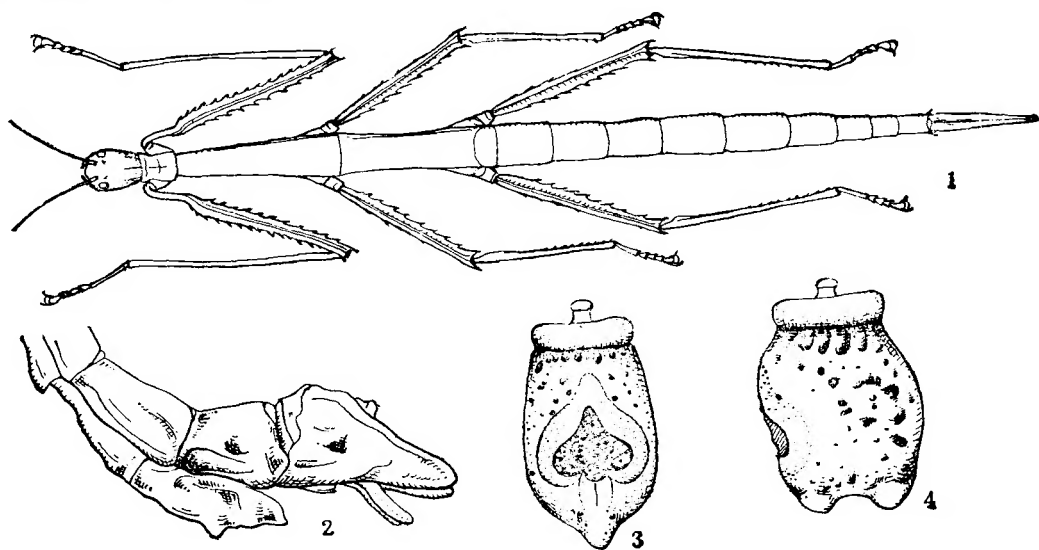


图1—4 蜀刺腿蝽 *Phobaeticus sichuanensis* sp. nov.

1.雌虫; 2.雄虫腹端侧面观; 3.卵背面观; 4.卵侧面观。

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前缘中央稍向后弯曲,侧缘具隆脊,近前缘有一不伸达侧缘的波曲横沟,中域具一十字形沟痕。中胸圆筒形,光滑,前端较窄缩,中、后胸后端稍膨大,胸部腹板光滑。并胸腹节短宽,长约为宽之半。前足腿节具明显纵隆脊,横切面亚三角形,背面和腹面外侧脊粗锯齿状,前足胫节无刺齿,中、后足腿节腹面内、外侧及中央脊均具齿(图1),近端部有2个强刺。中、后足胫节端部略细,腹面内、外侧及中央脊具刺齿。腹部圆筒形,第2—5节较粗,向后各节渐窄缩。臀节后缘中央呈宽弧形凹入,上肛板明显,横宽,超过臀后缘。尾须末端尖,稍超过上肛板后缘。第6腹节腹板后缘中央突出,腹瓣舟状,腹面中央脊显著,末端稍尖,远超过腹端(图1)。

体长(不包括腹瓣)176.0,前胸背板长7.9,中胸背板长33.4,后胸背板(含并胸腹节)长32.3,并胸腹节长4.3,上肛板长0.92,腹瓣长38.8,前足腿节长46.0,中足腿节长31.7,后足腿节长34.8mm。

雄虫:棕黄色,光滑。头顶中央有一“V”字形浅沟痕。眼间具一对短刺。头侧缘具灰白色宽带。触角超过前腿节中央。腹部圆筒形,第8腹节后端稍加粗,第9腹节背板侧缘基部各有一明显的白斑,臀节深裂,两侧叶端部钝圆,其内侧具齿,外部具深色短硬毛。尾须棒状,具密短硬毛,不达臀节后缘。下生殖板兜状,稍超过第9背板后端(图2)。

体长138.6,前胸背板长5.0,中胸背板长29.5,后胸背板(含并胸腹节)长28.1,并胸腹节长3.6,前足腿节长46.8,中足腿节长29.5,后足腿节长34.0mm。

卵:亚椭球形,灰色,具不规则黑色斑痕。卵盖扁平光滑,中央具短柱状头端。卵囊前端具光滑宽边,后端有两个光滑、不等长的钝突。卵孔板似桃形,表面粗糙,其中央为低凹的黑色桃形斑。中线明显,不伸达后端(图3,4)。

卵长3.68,宽2.32,高2.64mm。

正模♀,四川忠县,1989. X、9,曾林、胡良成采。配模♂,同正模。副模1♀,同正模;1♀2♂,四川巫山县。

该种与印度班卡产的 *Phobaeticus incertus* Brunner 近似,但身体较大;腹瓣较短,稍超过腹部末端3节长度之和的2倍(*P. incertus* 的腹瓣为腹部末端3节近3倍长)。

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A NEW SPECIES OF *PHOBAETICUS* FROM CHINA (PHASMATODEA: PHASMATIDAE)

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Some two hundred mu of the trees in Sichuan Province were damaged by stick insects in 1986. The damaged plants were: *Vernicia fordii*, *Cupressus funebris*, *Platycarya strobilacea*, *P. orientalis*, *Sapium sebiferum*, *Cyclobalanopsis* sp. *Salix cheilophila*, also *Zea mays*, *Solanum tuberosum*. In 1989, more than twenty mu of *Cupressus funebris* were eaten by the same species pests. We examined and found out a new species of phasmides. In this paper, the new species *Phobaeticus sichuanensis* is described. The types are preserved in the Department of Biology Nankai University. The measurements are all in millimeters.

***Phobaeticus sichuanensis* Cai & Liu sp. nov.** (figs. 1—4)

Female: fusco-testaceous; smooth. Head lateral margin pale; a pair of small spines between the eyes. Intermediate and posterior femora with spines on ventral carina (fig. 1), two strong apical spines on ventral carina. Operculum very long, much beyond the apex of abdomen.

Male: testaceous. Vertex with a "V" shaped furrow. Four posterior femora each with a strong spine on ventral carina near the apex.

	♀	♂
length of body (except operculum)	176.0	138.6
length of pronotum	7.9	5.0
length of mesonotum	33.4	29.5
length of metanotum (with median segment)	32.3	28.1
length of median segment	4.3	3.6
length of supra anal plate	0.92	---
length of operculum	38.8	---
length of front femora	46.0	46.8
length of median femora	31.7	29.5
length of hind femora	34.8	34.0

Egg: griseous with irregular black maculations (figs. 3,4). length 3.68, width 2.32, height 2.64.

Holotype: female, Zhongxian, Sichuan Province, 1989 X. 9. Collectores: Zeng Lin, Hu Liangcheng. Allotype: male, the same with holotype. Paratypes: 2 ♀, 2 ♂.

Female of the new species is similar to *Phobaeticus incertus* Brunner 1907, but can be distinguished by its body bigger and the operculum a little longer than 2 times of 8th, 9th and 10th tergites together (in *P. incertus* operculum nearly 3 times long).